

Household Hazardous Materials Programs



A Report to the Iowa General Assembly

January 2006

Iowa Department of Natural Resources
Energy and Waste Management Bureau

Household Hazardous Materials Programs

Toxic Cleanup Days Regional Collection Centers

A Report to the Iowa General Assembly

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Iowa Department of Natural Resources
Jeffrey R. Vonk, Director

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Executive Summary

This report summarizes accomplishments of Toxic Cleanup Days and Regional Collection Centers, two programs that play an important role in educating the public and providing for the appropriate disposal of hazardous waste. Both are operated by the Department of Natural Resources, which provides this report to the Iowa General Assembly in accordance with Iowa Code Section 455F.8. The Code of Iowa authorizes the Department of Natural Resources to provide for the collection and disposal of small amounts of hazardous wastes that are stored in residences, on farms, or in certain small businesses.



A bottle of Mercury collected at a Regional Collection Center.

The Energy and Waste Management Bureau of the Department of Natural Resources has developed a variety of Household Hazardous Material programs that work together in promoting proper purchases, safe use, storage and disposal of these wastes.

Regional Collection Centers (RCC) — Permanent collection facilities designed to assist the public and small quantity generators with proper management and disposal of hazardous waste. Grants are provided to a local government or public agency on behalf of local governments who wish to establish a Regional Collection Center in their area.

Toxic Cleanup Days (illustrated on this page) — One-day collection events for household hazardous waste in counties that are not yet served by a permanent RCC. Cost share is available for any local entity who would like to host a Toxic Cleanup day in their service area.

Retailers Consumer Education Program — (RCEP) A retailer permit and consumer information program to assist retailers with compliance in the Household Hazardous Material (HHM) Retailer permit and consumer education program. All retailers who sell HHMs are required by law to purchase an HHM permit and post signs to help educate the general public about HHMs. Permits are renewed annually and customer information signs are provided free of charge to all participating retailers by the DNR. Applications are accepted annually for competitive grants addressing retailer compliance and consumer awareness.

Household Hazardous Materials Education — A grant program to assist local governments and others to educate the public on the proper purchase, use, storage and disposal of household hazardous waste.

Applications for all of these programs are available online at www.iowadnr.com or by calling (515) 281-4367.



Household Hazardous Waste

Hazardous waste is associated with adverse health, environmental and safety effects. Health effects caused by hazardous waste can be acute (sudden or immediate onset of severe symptoms) or chronic (gradual onset of symptoms occurring through repeated exposure over an extended period of time).

Children are of special concern, as they are more susceptible to toxins than adults. A majority of all poisonings in Iowa (54 percent) were children under the age of six. In children especially, toxins may impair their immune and reproductive systems. A total of 17,801 exposures to hazardous materials were reported to the Iowa Poison Control Center in 2004.

Hazardous waste also has a negative impact on the environment. It contaminates groundwater and surface water, and it destroys the effectiveness of wastewater treatment plants and septic systems. Dumping household hazardous wastes into drainage ditches or storm sewers may cause toxins to flow untreated into rivers and lakes contaminating Iowa's drinking water in approximately 8 percent of the systems which effects 41.6 percent of residents. Improper disposal of household hazardous waste may contaminate our groundwater, which is the primary source of drinking water for most Iowa communities.

Toxic Cleanup Days- Summary of 2005

TCD host applications were sent to County Conservation Boards in the 30 counties without regional collection center services late in 2004 and early 2005. This mailing was followed up with a mailing to both County Board of Supervisors and City officials. Neither mailing resulted in Toxic Cleanup Day events being funded in 2005.

The DNR is preparing to meet with city and county officials to discuss the benefits of hazardous materials management whether through periodic Toxic Cleanup Day events or permanent Regional Collection Center services. As part of a comprehensive marketing and public awareness campaign, the DNR is developing the process to conduct DNR-sponsored TCD events. These events will showcase new household hazardous materials education materials as part of the comprehensive marketing initiative.

Poison Control

A total of 17,801 exposures to household hazardous materials were reported to the Iowa Poison Control Center in 2004. 54% of the poisonings in Iowa were children under the age of six.

Household Hazardous Waste

Household hazardous waste is defined as the unused or leftover portions of household hazardous materials. Household hazardous materials possess any or all of the following characteristics:

Toxic — poisonous, causing cancer or other health problems.

Corrosive — destroys human tissues or corrodes metal

Flammable — easily ignitable and will burn

Reactive — explosive through exposure to heat, sudden shock, pressure or incompatible chemicals

Toxic Cleanup Days

Toxic Cleanup Days are voluntary, one-day events in which a designated site is promoted and staffed as a drop-off point for disposal of small amounts (220 pounds or 25 gallons per household) of hazardous materials. TCDs are provided at no charge for households and farms. These events are publicized through the media and hosted by individual counties. Funding and administrative assistance are provided by the DNR.



Household Hazardous Program Updates

Retailers Consumer Education Program: Compliance Survey

In the fall of 2004 through spring of 2005, retailers selling household hazardous materials (HHMs) were surveyed to gauge compliance with Iowa law. Volunteers through the DNR's Keepers of the Land Program conducted on-site compliance surveys. Six hundred businesses in 91 of Iowa's 99 counties were randomly selected for on-site compliance surveys conducted by Keepers of the Land volunteers.

Survey results showed:

- ◆ 98 percent of businesses surveyed had obtained the required permit
- ◆ 10 percent of businesses were in compliance with Iowa law regarding provision of consumer education materials.

HHM retailers are required to provide consumers with information regarding products that are considered more environmentally friendly, proper HHM purchase, use, storage and disposal. The DNR is establishing an advisory committee to discuss methods of increasing retailer's awareness of their requirements, barriers to compliance, and review of existing educational materials. Representatives of chemical manufacturers, retailer associations, regional collection center managers, EPA, etc. will be invited to participate in the program review.

Code and Administrative Rule Changes

House File 602, passed during the 2005 legislative session, redistributes the funding by shifting approximately \$247,000 annually from establishment grants to semiannual assistance payments. House File 602 also made private agencies eligible to receive semiannual assistance payments. In light of the code change, the DNR is in the process of updating the Administrative Rules (IAC 567 chapter 123 & Chapter 211) dealing with the Regional Collection Center program. The Environmental Protection Commission will be asked to approve the administrative rule changes at their January meeting. The proposed rules were published in the November 9 Iowa Administrative Bulletin and can be viewed at <http://www.legis.state.ia.us/Rules/Current/Bulletin/>.

Education Programs in Progress

Rural Outreach for Household Hazardous Material Management

The Department is partnering with the U.S. Department of Agriculture, Rural Development Division, to provide HHM education to rural residents of the state of Iowa. Agren Inc. is developing educational materials for Regional Collection Centers to use in their outreach and education programs. These educational materials will focus exclusively on assisting rural residents and farm businesses with management of HHM's. State wide training tools will be developed for all RCC's and interested partners.

School Chemical Management

The DNR is partnering with the Environmental Protection Agency to provide mini-grants to schools who participate in an Advanced Rehab the Lab Chemical Management Training Course. The training classes are conducted by Growing Green Communities, offered over the ICN, and instruct Junior and Senior High school educators on proper chemical management of school laboratories, industrial tech areas, and custodial areas. Upon completion of training, schools may receive \$900 per building to implement the chemical management procedures taught in the class. An EPA grant of \$75,000 allows the DNR to assist more than 80 Iowa schools.



Regional Collection Centers

Regional Collection Centers (RCCs) are permanent collection facilities designed to assist the public and conditionally exempt small quantity generators with proper management and disposal of hazardous waste. RCCs accept specific types of hazardous waste for disposal, provide a materials exchange (Swap Shop) and work to educate Iowans in proper purchasing and management techniques for HHMs.

The DNR received seven requests for funding for Regional Collection Centers. Funding requests totaled \$504,565 and affected 15 counties. This is the largest request for funding in the history of the RCC program. Funding was approved for six applications covering 12 counties. The grants enabled six counties to begin an RCC program and six counties to improve existing RCC programs.

Record Request for Funding in 2005

Counties requested \$504,565 dollars to establish Regional Collection Centers in their areas. These requests affected 15 percent of the counties in the State of Iowa. Beginning in 2006, 70 percent of Iowa counties will have some type of permanent program in place for proper management of household hazardous materials.

2005 RCC Expenditures

Number of Establishment Grants Awarded	Six
Total Establishment Grant Awards	\$348,288
Total Operations Support Provided	\$169,433
Total Department Contribution	\$517,721

Regional Collection Centers - Summary of 2005

Avg. Hazardous Waste Amount Collected Per Household Participant	94 lbs
Avg. Hazardous Waste Amount Collected Per Business Participant	272 lbs
Total Hazardous Waste Collected - Managed Locally (i.e., electronics, motor oil, lead acid batteries)	1,542,308 lbs
Total contracted Hazardous Waste Disposal	612,378 lbs
Total Hazardous Materials Reused	265,924 lbs
Total Hazardous Waste Collected	2,420,612 lbs

Note: RCC accomplishments during fiscal year 2005 can be found on page 10 of this report.

Section 1:

Regional Collection Centers



Regional Collection Centers

RCCs serve two purposes

1. Educate the public regarding the proper management of household hazardous materials (i.e., purchase of safer alternatives, buy only what you need, use what you buy, give away what you cannot use, proper storage and disposal).

2. Provide regular access to properly dispose of hazardous materials for which alternative uses are not available.

Regional Collection Centers (RCCs) are Iowa's answer for disposal of hazardous materials from households, farms and conditionally exempt small quantity generators¹, businesses, schools, ect.

An RCC is a public, locally managed facility for the collection, sorting and packaging of hazardous materials prior to their transport for proper disposal. Satellites are smaller drop off sites that contract with RCCs for disposal of hazardous materials. In 1991, the Iowa General Assembly provided for the establishment of regional collection centers (455F.8A) to serve households and conditionally exempt small quantity generators on an ongoing basis. The establishment of the RCC program has provided a permanent, ongoing and cost-effective mechanism for the proper management of hazardous materials in Iowa.

Since the inception of this program, more than 16 million pounds of waste have been diverted from Iowa landfills through RCCs, including more than 4.8 million pounds of toxic, flammable or reactive household hazardous waste. These materials pose significant threat to Iowa's groundwater, wildlife, solid waste haulers, landfill operators, children, families and pets through personal exposure or contamination. RCCs have assisted households, farming operations, schools and businesses in disposal of thousands of pounds of banned pesticides, mercury, various organic solvents and a wide scope of other toxic and hazardous chemicals.

Currently, 17 operating RCCs serve 69 counties with a variety of programs including daily access to a hazardous material drop-off site. Fifteen cities in four counties have contracts with RCC's to provide clean up day events twice a year. Facilities in Dickinson Co. and WRD (Wayne, Ringgold, Decatur counties) are under construction and are expected to begin operations in spring of 2006. Warren and Cass counties have just established satellite facilities and are expected to begin operations and shipping waste in 2006.

Counties without RCC Services



It is the goal of the DNR program to have each county in Iowa included in the service area of an RCC.

A summary of the RCC accomplishments for fiscal year 2005 can be found on page ten.

A summary of information for the operations of all individual RCCs is provided on the following pages.

¹ A conditionally exempt small quantity generator (CESQG) meets the following criteria: Within one month will not generate more than 100 kilograms (approximately 220 lbs.) of hazardous materials, will not produce or store more than 22 lbs of an acute hazardous material (these are listed in 40CFR261.33) in one month, and never stores more than 1,000 kilograms (approximately 2,200 lbs.) of hazardous waste at any one time.



Regional Collection Center (RCC) Accomplishments

Fiscal Year 2005

RCC Benefits

- Permanent availability, often year-round
- Increase groundwater and aquifer protection
- Increase in worker safety for both Sanitation and Water Treatment Plants
- Decrease in hazardous exposures to humans and pets
- Decrease in damage to sewer and septic systems from improper disposal
- Lower disposal cost per pound
- Ongoing education for Iowa residents
- Available to CESQG businesses, schools etc.
- One facility can serve several counties

The following data are derived from 17 Regional Collection Centers currently in operation:

Total program cost ¹ for FY 2005	\$2,273,462
Household hazardous waste disposed	612,755 lbs.
Latex paint managed locally	647,307 lbs.
Used motor oil managed locally	642,285 lbs.
Used lead-acid batteries managed locally	138,901 lbs.
Other waste (sharps, scrap metals, electronics, ect.)	706,279 lbs.
Materials reused locally through Swap Shop	292,978 lbs.
TOTAL MANAGED LOCALLY*	2,398,167 lbs.
TOTAL AMOUNT OF WASTE COLLECTED**	2,897,793 lbs.

Total Household Participation	23,992
Total Small Quantity Generator Participation	797
Total Participation	24,789

County Coverage	
RCCS	17 counties
Satellites	32 counties
Mobile Collections	16 counties
Cities w/ Clean up Days only	4 counties
Total covered counties	69

Key Points Summary	
Disposal cost per pound of <i>hazardous waste collected</i>	\$0.70
Program cost per pound of <i>total hazardous waste collected***</i>	\$0.78
Average weight of waste collected per household	94 lbs
Average weight of waste collected per business	272 lbs
Total IDNR reimbursement per pound of <i>hazardous waste collected for contracted disposed</i>	\$0.21
Total IDNR reimbursement per pound of <i>total hazardous waste collected****</i>	\$0.05

¹ Total program cost includes: disposal costs, salaries and benefits, equipment and supplies, overhead, public education, training and insurance.

* Amount of material not contracted to a Hazardous Waste Contractor for disposal

** Includes Swap shop and non hazardous poundage.

*** Total program cost per pound calculated by dividing total program cost by total pounds managed.

**** Total IDNR Reimbursement per pound calculated by dividing total IDNR reimbursement by total pounds managed.



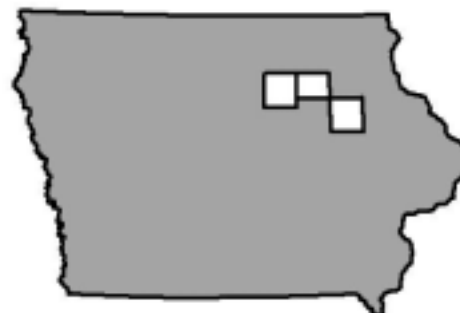
Bremer County Regional Collection Center

Population:
22,968 households

Contact info:
Bremer Co. Regional
Collection Center
415 E. Bremer Ave.
Waverly, IA 50677

(319) 352-4574

Facility Service Area:
Main Facility: *Bremer County*
Satellite Facilities: *Butler and
Buchanan counties*



Participation Overview	Number of participants	Percent participation
Households participating	357	1.5
Conditionally exempt small quantity generators	8	NA ¹

Disposal costs \$7,856.40
RCC disposal cost per pound \$0.78

Total RCC
Expenditures*
\$74,668.40

Operation &
Disposal Support
From DNR
\$2,539.55

Type of Waste Collected	Subtotal	Totals (pounds)
Lead acid batteries managed locally	0	
Latex paint managed locally	3,096	
Used oil managed locally	0	
Other managed locally (sharps,electronics)	0	
Total managed locally**		3,096
Household hazardous waste (HHW)		10,038
TOTAL POUNDS MANAGED***		13,134
Amount distributed in a Swap Shop		0

Key Points Summary	
Total pounds collected per household	155
Total pounds collected per CESQG	146
Total operational cost per pound of waste collected****	\$0.48

¹ NA: Not Available - Industries meeting the requirements of a conditionally exempt small quantity generator (CESQG) are not required to register with the Environmental Protection Agency and therefore the total number of CESQGs in the region are unknown.

* Total RCC Expenditures include: disposal costs, salaries and benefits, equipment and supplies, overhead, public education, training and insurance.

** Includes Swap shop and non hazardous poundage.

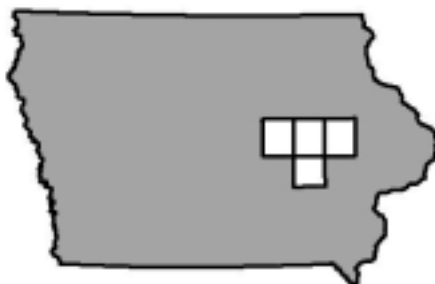
*** Includes waste managed locally with no contractor disposal costs.

**** Total Cost Per Pound of Waste managed calculated by dividing Total RCC Expenditures by Total Pounds Managed.



Cedar Rapids/Linn County SWA Regional Collection Center

Main Facility: *Linn County*
Satellite Facilities: *Benton, Iowa*
and Tama Counties



Population:
 99,680 households

Contact info:
 Cedar Rapids/Linn
 Co. SWA
 P.O. Box 2068
 Cedar Rapids, IA
 52732

Floyd Pelkey
 (319) 373-4771

Participation Overview	Number of participants	Percent participation
Households participating	2698	2.7
Conditionally exempt small quantity generators	133	NA ¹

Disposal costs \$31,206
 RCC disposal cost per pound \$0.27

Type of Waste Collected	Subtotal	Totals (pounds)
Lead acid batteries managed locally	7315	
Latex paint managed locally	104,593	
Used oil managed locally	0	
Other managed locally (sharps,electronics)	199,171	
Total managed locally**		323,615
Household hazardous waste (HHW)		113,793
TOTAL POUNDS MANAGED***		437,408
Amount distributed in a Swap Shop	38,598	

Key Points Summary	
Total pounds collected per household	155
Total pounds collected per CESQG	146
Total operational cost per pound of waste collected****	\$0.48

Total RCC
 Expenditures*
 \$209,610

Operation &
 Disposal Support
 From DNR
 \$29,441.28

1 NA: Not Available - Industries meeting the requirements of a conditionally exempt small quantity generator (CESQG) are not required to register with the Environmental Protection Agency and therefore the total number of CESQGs in the region are unknown.

* Total RCC Expenditures include: disposal costs, salaries and benefits, equipment and supplies, overhead, public education, training and insurance.

** Includes Swap shop and non hazardous poundage.

*** Includes waste managed locally with no contractor disposal costs.

**** Total Cost Per Pound of Waste Managed calculated by dividing Total RCC Expenditures by Total Pounds managed.



Clinton County Area Regional Collection Center

Main Facility: *Clinton County Mobile Connection Unit supporting: Clinton, Cedar, Jackson and Jones Counties.*
Satellite Facilities: *Cedar, Jackson and Jones Counties*



Population:
42,890 households

Contact info:
Clinton County Area
Solid Waste Agency
4292 220th St.
Clinton, IA 52732

Laura Liegois
(563) 243-4749

Participation Overview	Number of participants	Percent participation
Households participating	1,441	3.3
Conditionally exempt small quantity generators	42	NA ¹

Disposal costs \$27,281.80
 RCC Disposal cost per pound \$0.70

Total RCC
Expenditures*
\$62,402.54

Operation &
Disposal Support
From DNR
\$12,675.94

Type of Waste Collected	Subtotal	Totals (pounds)
Lead acid batteries managed locally	12,660	
Latex paint managed locally	28,690	
Used oil managed locally	152,720	
Other managed locally (sharps,electronics)	8240	
Total managed locally**		208,972
Household hazardous waste (HHW)		38,734
TOTAL POUNDS MANAGED***		247,706
Amount distributed in a Swap Shop		0

Key Points Summary	
Total pounds collected per household	168
Total pounds collected per CESQG	100
Total operational cost per pound of waste collected****	\$0.25

¹ NA: Not Available - Industries meeting the requirements of a conditionally exempt small quantity generator (CESQG) are not required to register with the Environmental Protection Agency and therefore the total number of CESQGs in the region are unknown.

* Total RCC Expenditures include: disposal costs, salaries and benefits, equipment and supplies, overhead, public education, training and insurance.

** Includes Swap shop and non hazardous poundage.

*** Includes waste managed locally with no contractor disposal costs.

**** Total Cost Per Pound of Waste managed calculated by dividing Total RCC Expenditures by Total Pounds Managed.



Council Bluffs Regional Collection Center

Population:
45,876 households

Contact info:
Council Bluffs
Regional Collection
Center
4441 Gifford Road
Council Bluffs, IA
51501

Tony Fiala
(712) 328-4985

Main Facility: Council Bluffs
Mobile Collection Unit
supporting: Pottawattamie and
Page Counties



Participation Overview	Number of participants	Percent participation
Households participating	1,466	3.1
Conditionally exempt small quantity generators	14	NA ¹

Disposal costs \$23,996
RCC disposal cost per pound \$0.69

Type of Waste Collected	Subtotal	Totals (pounds)
Lead acid batteries managed locally	30,640	
Latex paint managed locally	49,921	
Used oil managed locally	87,960	
Other managed locally (sharps,electronics)		
Total managed locally**		187,148
Household hazardous waste (HHW)		34,669
TOTAL POUNDS MANAGED***		221,817
Amount distributed in a Swap Shop	55,283	

Key Points Summary	
Total pounds collected per household	149
Total pounds collected per CESQG	200
Total operational cost per pound of waste collected****	\$0.83

1 NA: Not Available - Industries meeting the requirements of a conditionally exempt small quantity generator (CESQG) are not required to register with the Environmental Protection Agency and therefore the total number of CESQGs in the region are unknown.

* Total RCC Expenditures include: disposal costs, salaries and benefits, equipment and supplies, overhead, public education, training and insurance.

** Includes Swap shop and non hazardous poundage.

*** Includes waste managed locally with no contractor disposal costs.

**** Total Cost Per Pound of Waste Managed calculated by dividing Total RCC Expenditures by Total Pounds managed.



Dubuque Regional Collection Center

Main Facility: *Dubuque County*
Mobile Connection Unit
supporting: *Dubuque and Delaware counties*



Population:
 40,524 households

Contact info:
*Dubuque Regional
 Collection Center
 925 Kerper Blvd.
 Dubuque, IA 52001*

*Nancy Otterbeck
 (563) 589-1720*

Participation Overview	Number of participants	Percent participation
Households participating	619	1.5
Conditionally exempt small quantity generators	63	NA ¹

Disposal costs \$35,966.78
 RCC disposal cost per pound \$1.16

Total RCC
 Expenditures*
 \$61,039.93

Operation &
 Disposal Support
 From DNR
 \$7,796.49

Type of Waste Collected	Subtotal	Totals (pounds)
Lead acid batteries managed locally	3,550	
Latex paint managed locally	18,520	
Used oil managed locally	8,000	
Other managed locally (sharps,electronics)	3,700	
Total managed locally**		38,390
Household hazardous waste (HHW)		30,904
TOTAL POUNDS MANAGED***		69,294
Amount distributed in a Swap Shop	25,170	

Key Points Summary	
Total pounds collected per household	107
Total pounds collected per CESQG	119
Total operational cost per pound of waste collected****	\$0.88

¹ NA: Not Available - Industries meeting the requirements of a conditionally exempt small quantity generator (CESQG) are not required to register with the Environmental Protection Agency and therefore the total number of CESQGs in the region are unknown.

* Total RCC Expenditures include: disposal costs, salaries and benefits, equipment and supplies, overhead, public education, training and insurance.

** Includes Swap shop and non hazardous poundage.

*** Includes waste managed locally with no contractor disposal costs.

**** Total Cost Per Pound of Waste managed calculated by dividing Total RCC Expenditures by Total Pounds Managed.



HazChem Center of Southeast Iowa

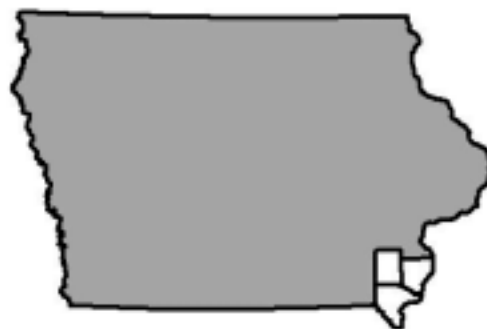
Population:
44,757 households

Contact info:
HazChem Center of
Southeast Iowa
1818 W. Burlington
Ave.
Burlington, IA 52601

Elyn Holton-Dean:
(312) 753-8758

Facility Service Area:

Main Facility: *Des Moines County*
Mobile Collection Unit
supporting: *Des Moines, Henry,
Lee Counties*
Satellite Facility: *Lee County*



Participation Overview	Number of participants	Percent participation
Households participating	684	1.5
Conditionally exempt businesses	66	NA

Total RCC
expenditures*
\$134,722

Disposal costs \$9,212
RCC disposal cost per pound \$0.81

Operation &
Disposal Support
From DNR
\$942.74

Type of Waste Collected	Subtotal	Totals (pounds)
Lead acid batteries managed locally	0	
Latex paint managed locally	0	
Used oil managed locally	0	
Other managed locally (sharps,electronics)	37,482	
Total managed locally**		37,482
Household hazardous waste (HHW)		11,329
TOTAL POUNDS MANAGED***		48,811
Amount distributed in a Swap Shop	0	

Key Points Summary	
Total pounds collected per household	155
Total pounds collected per CESQG	146
Total operational cost per pound of waste collected****	\$0.48

1 NA: Not Available - Industries meeting the requirements of a conditionally exempt small quantity generator (CESQG) are not required to register with the Environmental Protection Agency and therefore the total number of CESQGs in the region are unknown.

* Total RCC Expenditures include: disposal costs, salaries and benefits, equipment and supplies, overhead, public education, training and insurance.

** Includes Swap shop and non hazardous poundage.

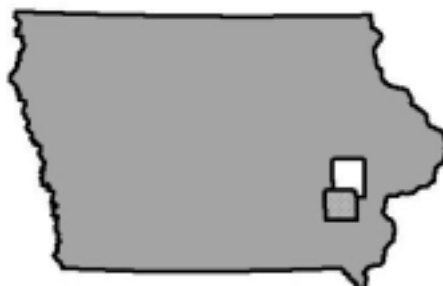
*** Includes waste managed locally with no contractor disposal costs.

**** Total Cost Per Pound of Waste Managed calculated by dividing Total RCC Expenditures by Total Pounds managed.



Iowa City Regional Collection Center

Main Facility: *Johnson County*
Mobile Service: *To select cities
in Washington County*



Population:
44,080 households

Contact info:
*Iowa City RCC
 3900 Hebl Ave. SW
 Iowa City, IA 52240*

*Dave Elias
 (319) 356-5170*

Participation Overview	Number of participants	Percent participation
Households participating	2847	6.45
Conditionally exempt small quantity generators	34	NA ¹

Disposal costs \$55,619.74
 RCC disposal cost per pound \$0.81

Total RCC
 Expenditures*
 \$138,609.28

Type of Waste Collected	Subtotal	Totals (pounds)
Lead acid batteries managed locally	7,398	
Latex paint managed locally	161,597	
Used oil managed locally	52,000	
Other managed locally (sharps, electronics)	139,737	
Total managed locally**		368,444
Household hazardous waste (HHW)		55,992
TOTAL POUNDS MANAGED***		424,436
Amount distributed in a Swap Shop	39,522	

Operation &
 Disposal Support
 From DNR
 \$15,025.90

Key Points Summary	
Total pounds collected per household	146
Total pounds collected per CESQG	198
Total operational cost per pound of waste collected****	\$0.33

¹ NA: Not Available - Industries meeting the requirements of a conditionally exempt small quantity generator (CESQG) are not required to register with the Environmental Protection Agency and therefore the total number of CESQGs in the region are unknown.

* Total RCC Expenditures include: disposal costs, salaries and benefits, equipment and supplies, overhead, public education, training and insurance.

** Includes Swap shop and non hazardous poundage.

*** Includes waste managed locally with no contractor disposal costs.

**** Total Cost Per Pound of Waste managed calculated by dividing Total RCC Expenditures by Total Pounds Managed.



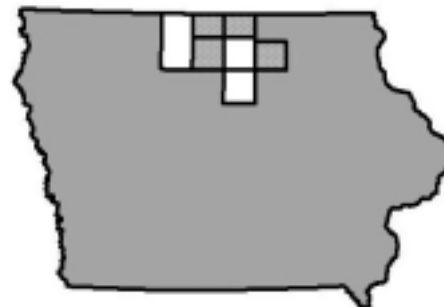
Landfill of North Iowa Regional Collection Center

Population:
59,840 households

Contact info:
Landfill of North Iowa
15942 Killdeer Ave.
Clear Lake, IA 50428

Bill Rowland
(641) 357-5452

Main Facility: Cerro Gordo County
Satellite Facilities: Kossuth County
Mobile Collection Unit: supporting:
Cerro Gordo, Franklin, Kossuth,
Counties and select cities in Worth,
Hancock, and Winnebago Counties.



Participation Overview	Number of participants	Percent participation
Households participating	1,853	3.0
Conditionally exempt small quantity generators	72	NA ¹

Total RCC
Expenditures*
\$125,166.82

Operation &
Disposal Support
From DNR
\$11,702.06

Disposal costs \$48,213.19
RCC disposal costs per pound \$1.28

Type of Waste Collected	Subtotal	Totals (pounds)
Lead acid batteries managed locally	0	
Latex paint managed locally	56,445	
Used oil managed locally	21,048	
Other managed locally (sharps, electronics)	0	
Total managed locally**		114,713
Household hazardous waste (HHW)		37,631
TOTAL POUNDS MANAGED***		152,344
Amount distributed in a Swap Shop	4709	

Key Points Summary	
Total pounds collected per household	66
Total pounds collected per CESQG	381
Total operational cost per pound of waste collected****	\$0.82

¹ NA: Not Available - Industries meeting the requirements of a conditionally exempt small quantity generator (CESQG) are not required to register with the Environmental Protection Agency and therefore the total number of CESQGs in the region are unknown.

* Total RCC Expenditures include: disposal costs, salaries and benefits, equipment and supplies, overhead, public education, training and insurance.

** Includes Swap shop and non hazardous poundage.

*** Includes waste managed locally with no contractor disposal costs.

**** Total Cost Per Pound of Waste Managed calculated by dividing Total RCC Expenditures by Total Pounds managed.



Metro Waste Authority Regional Collection Center

Main Facility: Polk County

Satellite Facilities: Adair, Boone, Carroll, Chickasaw, Crawford, Floyd, Grundy, Hardin, Jasper, Madison, Marion, Marshall, Mitchell, Shelby, and Story counties

Mobile Connection Unit supporting: Dallas, Greene, Lucas, Mitchell, Poweshiek, and Warren counties



Population:

337,597 households

Contact info:

MWA Regional
Collection Center
225 Prairie Dr.
Bondurant, IA 50035

Judi Mendenhall
(515) 967-5512

Participation Overview	Number of participants	Percent participation
Households participating	8,796	2.6
Conditionally exempt small quantity generators	221	NA ¹

Disposal costs \$202,352.11
RCC disposal cost per pound \$1.20

Type of Waste Collected	Subtotal	Totals (pounds)
Lead acid batteries managed locally	43,487	
Latex paint managed locally	111,540	
Used oil managed locally	84,343	
Other managed locally (sharps,electronics)	308,166	
Total managed locally**		592,688
Household hazardous waste (HHW)		168,853
TOTAL POUNDS MANAGED***		761,541
Amount distributed in a Swap Shop	94,749	

Key Points Summary	
Total pounds collected per household	56
Total pounds collected per CESQG	1219
Total operational cost per pound of waste collected****	\$0.48

Total RCC
Expenditures*
\$924,187.12

Operation &
Disposal Support
From DNR
\$48,380.26

¹ NA: Not Available - Industries meeting the requirements of a conditionally exempt small quantity generator (CESQG) are not required to register with the Environmental Protection Agency and therefore the total number of CESQGs in the region are unknown.

* Total RCC Expenditures include: disposal costs, salaries and benefits, equipment and supplies, overhead, public education, training and insurance.

** Includes Swap shop and non hazardous poundage.

*** Includes waste managed locally with no contractor disposal costs.

**** Total Cost Per Pound of Waste managed calculated by dividing Total RCC Expenditures by Total Pounds Managed.



PCB

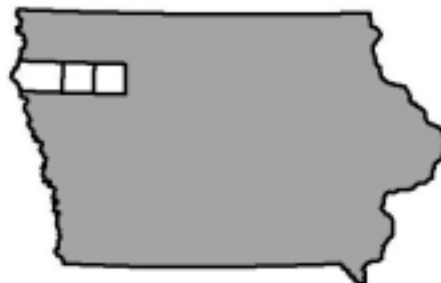
Regional Collection Center

Population:
22,249 households

Contact info:
PCB Regional
Collection Center
1805 Linden St.
Cherokee, IA 51012

Dennis Henrich
(712) 225-3749

Main Facility: Cherokee County
Mobile Collection Unit
supporting: Plymouth,
Cherokee and Buena Vista
counties



Participation Overview	Number of participants	Percent participation
Households participating	930	4.1
Conditionally exempt small quantity generators	5	NA ¹

Total RCC
Expenditures*
\$51,453.14

Disposal costs \$32,954.36
RCC disposal cost per pound \$1.50

Operation &
Disposal Support
From DNR
\$7,300

Type of Waste Collected	Subtotal	Totals (pounds)
Lead acid batteries managed locally	404	
Latex paint managed locally	2,640	
Used oil managed locally	800	
Other managed locally (sharps, electronics)	320	
Total managed locally**		4,164
Household hazardous waste (HHW)		21,900
TOTAL POUNDS MANAGED***		26,064
Amount distributed in a Swap Shop	1360	

Key Points Summary	
Total pounds collected per household	64
Total pounds collected per CESQG	194
Total operational cost per pound of waste collected****	\$1.97

¹ NA: Not Available - Industries meeting the requirements of a conditionally exempt small quantity generator (CESQG) are not required to register with the Environmental Protection Agency and therefore the total number of CESQGs in the region are unknown.

* Total RCC Expenditures include: disposal costs, salaries and benefits, equipment and supplies, overhead, public education, training and insurance.

** Includes Swap shop and non hazardous poundage.

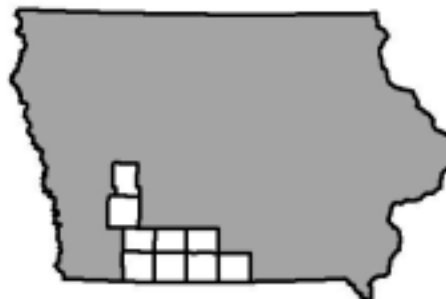
*** Includes waste managed locally with no contractor disposal costs.

**** Total Cost Per Pound of Waste Managed calculated by dividing Total RCC Expenditures by Total Pounds managed.



Prairie SWA Regional Collection Center

Main Facility: Union County
Satellite Facilities: Audubon,
 Cass, Clarke, and WRD Counties
 (Wayne, Ringgold, Decatur)
**Mobile Connection Unit
 supporting:** Adams and Taylor
 counties



Population:
 5,242 households

Contact info:
 Prairie RCC
 1774 Lark Ave.
 P.O. Box 227
 Creston, IA 50801

*Leslie Bullock-
 Goldsmith*
 (641) 347-5022

Participation Overview	Number of participants	Percent participation
Households participating	305	5.8
Conditionally exempt small quantity generators	11	NA ¹

Disposal costs \$6,314.00
 RCC disposal cost per pound \$0.25

Type of Waste Collected	Subtotal	Totals (pounds)
Lead acid batteries managed locally	4,180	
Latex paint managed locally	7,057	
Used oil managed locally	4,894	
Other managed locally (sharps, electronics)	900	
Total managed locally**		20,370
Household hazardous waste (HHW)		6,035
TOTAL POUNDS MANAGED***		26,405
Amount distributed in a Swap Shop	5,406	

Total RCC
 Expenditures*
 \$38,019

Operation &
 Disposal Support
 From DNR
 \$2,011.85

Key Points Summary	
Total pounds collected per household	82
Total pounds collected per CESQG	135
Total operational cost per pound of waste collected****	\$0.48

¹ NA: Not Available - Industries meeting the requirements of a conditionally exempt small quantity generator (CESQG) are not required to register with the Environmental Protection Agency and therefore the total number of CESQGs in the region are unknown.

* Total RCC Expenditures include: disposal costs, salaries and benefits, equipment and supplies, overhead, public education, training and insurance.

** Includes Swap shop and non hazardous poundage.

*** Includes waste managed locally with no contractor disposal costs.

**** Total Cost Per Pound of Waste managed calculated by dividing Total RCC Expenditures by Total Pounds Managed.



SEMCO

Regional Collection Center

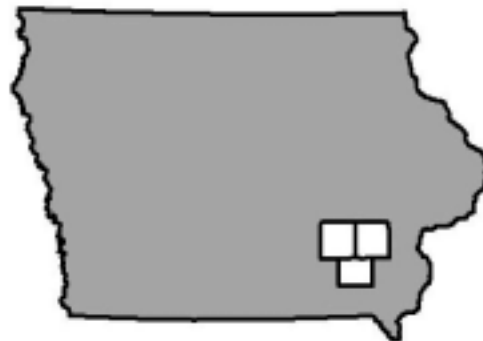
Population:
19,291 households

Contact info:
SEMCO Regional
Collection Center
29997 Hwy. 78
Richland, IA 52585

Ray Griffin
(319) 456-6171

Main Facility: Jefferson
County.

Mobile Collection Unit :
Jefferson, Keokuk and
Washington counties



Participation Overview	Number of participants	Percent participation
Households participating	70	0.4
Conditionally exempt small quantity generators	1	NA ¹

Total RCC
Expenditures*
\$16,313.08

Operation &
Disposal Support
From DNR
\$1,100.77

Disposal costs \$3,125
RCC disposal cost per pound \$0.95

Type of Waste Collected	Subtotal	Totals (pounds)
Lead acid batteries managed locally	0	
Latex paint managed locally	0	
Used oil managed locally	0	
Other managed locally (sharps,electronics)	0	
Total managed locally**		0
Household hazardous waste (HHW)		3,302
TOTAL POUNDS MANAGED***		3,302
Amount distributed in a Swap Shop	0	

Key Points Summary	
Total pounds collected per household	46
Total pounds collected per CESQG	85
Total operational cost per pound of waste collected****	\$4.94

¹ NA: Not Available - Industries meeting the requirements of a conditionally exempt small quantity generator (CESQG) are not required to register with the Environmental Protection Agency and therefore the total number of CESQGs in the region are unknown.

* Total RCC Expenditures include: disposal costs, salaries and benefits, equipment and supplies, overhead, public education, training and insurance.

** Includes Swap shop and non hazardous poundage.

*** Includes waste managed locally with no contractor disposal costs.

**** Total Cost Per Pound of Waste Managed calculated by dividing Total RCC Expenditures by Total Pounds managed.



Waste Commission of Scott County Regional Collection Center

Main Facility: *Scott County*
Satellite Facility:
Muscatine County



Population:
78,181 households

Contact info:
*Waste Commission of
Scott County
P.O. Box 563
Buffalo, IA 52728*

*Kathy Morris
(563) 381-1300*

Participation Overview	Number of participants	Percent participation
Households participating	2,465	3.1
Conditionally exempt small quantity generators	133	NA ¹

Disposal costs \$37,108.43
RCC disposal cost per pound \$0.08

Total RCC
Expenditures*
\$141,086.67

Type of Waste Collected	Subtotal	Totals (pounds)
Lead acid batteries managed locally	29,267	
Latex paint managed locally	103,208	
Used oil managed locally	230,520	
Other managed locally (sharps,electronics)	8,563	
Total managed locally**		385,955
Household hazardous waste (HHW)		79,575
TOTAL POUNDS MANAGED***		465,530
Amount distributed in a Swap Shop	28,181	

Operation &
Disposal Support
From DNR
\$20,849.03

Key Points Summary	
Total pounds collected per household	177
Total pounds collected per CESQG	219
Total operational cost per pound of waste collected****	\$0.78

¹ NA: Not Available - Industries meeting the requirements of a conditionally exempt small quantity generator (CESQG) are not required to register with the Environmental Protection Agency and therefore the total number of CESQGs in the region are unknown.

* Total RCC Expenditures include: disposal costs, salaries and benefits, equipment and supplies, overhead, public education, training and insurance.

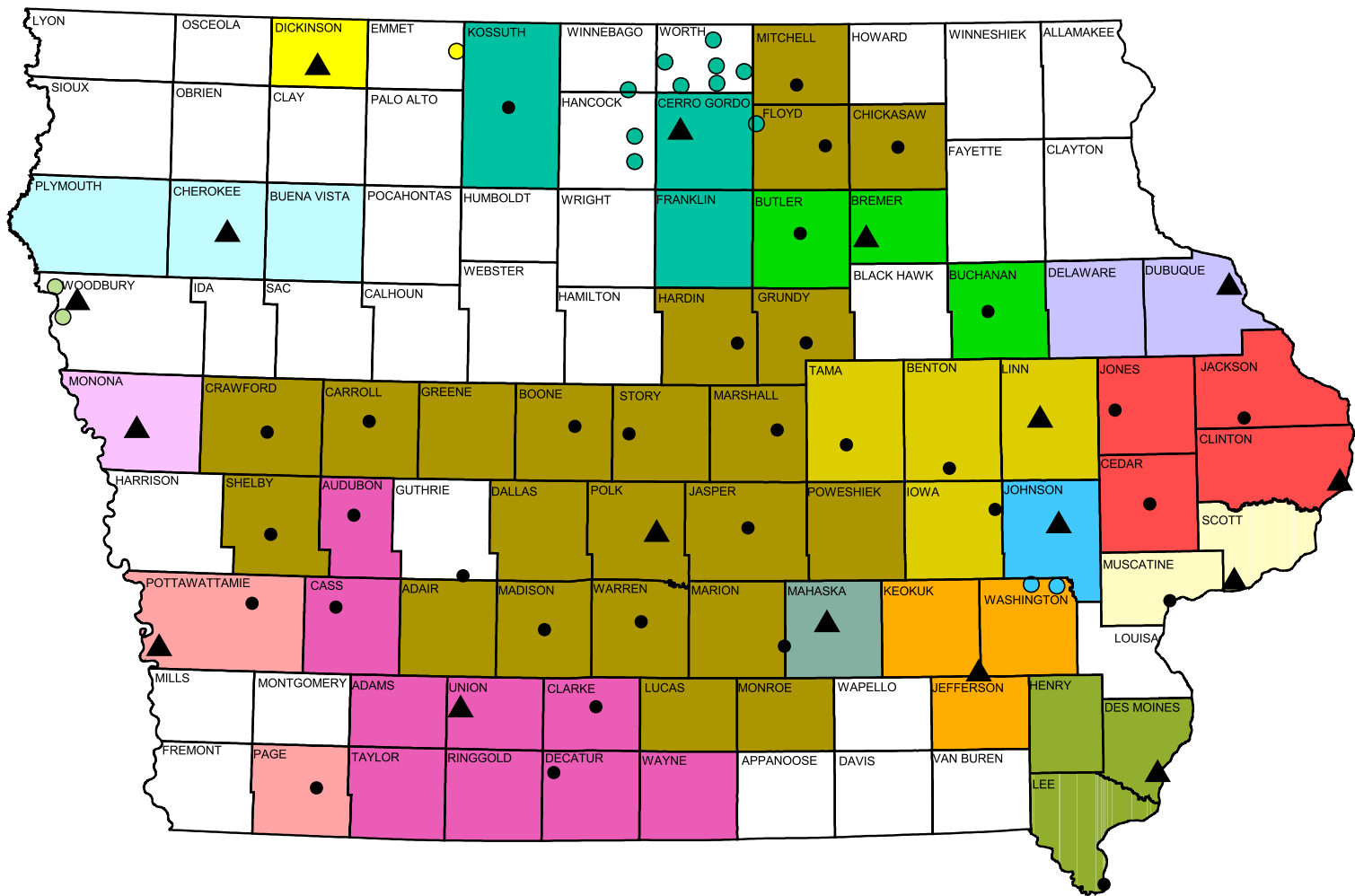
** Includes Swap shop and non hazardous poundage.

*** Includes waste managed locally with no contractor disposal costs.

**** Total Cost Per Pound of Waste managed calculated by dividing Total RCC Expenditures by Total Pounds Managed.

HHM Regional Collection Centers

Regional Collection Centers (RCC) are permanent collection facilities designed to assist the public and small businesses with proper management of hazardous materials.



▲ Regional Collection Center Facilities

● RCC Satellites

RCC Service Areas

- | | |
|----------------------------|----------------------------------|
| Dickinson Co. RCC | Dubuque Co. RCC |
| Serviced City | CR/Linn Co. SWA RCC |
| Iowa City RCC | Waste Commission of Scott County |
| Serviced City | PCB SWA RCC |
| Landfill of North Iowa | Metro Waste Authority RCC |
| Serviced City | Monona Co. RCC |
| Council Bluffs RCC | Mahaska Co. RCC |
| Clinton Co. SWA RCC | SEMCO RCC |
| Haz Chem RCC | Bremer Co. RCC |
| Prairie Solid Waste Agency | Unserved Counties |

Sioux City HHM Collection Center Service Area



Iowa Regional Collection Center

Contact Information

Main facilities are in bold with satellite facilities listed beneath

RCC Name	Phone	Counties Served	Website
Bremer Co. RCC Buchanan Co. Satellite Butler Co. Satellite	319-352-4574 319-440-1080 319-267-2070	Bremer, Buchanan, Butler Buchanan Butler	www.co.bremer.ia.us/ departments/landfill/index.html
Cedar Rapids/Linn Co. SWA Benton Co. Satellite Iowa Co. Satellite Tama Co. Satellite	319-373-4771 319-828-4401 319-472-2211 641-484-3341	Linn, Benton, Iowa, Tama Benton Iowa Tama	
Clinton Co. Area SWA Cedar Co. Satellite Jackson Co. Satellite Jones Co. Satellite	563-243-4749	Clinton, Cedar, Jones, Jackson Cedar Jackson Jones	www.ccswa.org www.jcsda.org
Council Bluffs RCC Page Co. Satellite	712-328-4985 712-542-4215	Pottawattamie, Page Page	
Dickinson Co. RCC (Open in Fall 2006)	712-338-4786	Dickinson & City of Armstrong in Emmet Co.	
Dubuque Co. RCC	563-589-1720	Dubuque, Delaware	www.dmaswa.org
HazChem Center/SE IA Lee Co. Satellite	319-753-8758	Des Moines, Henry, Lee Lee	www.wastewrap.org/Household HazardousWaste.html
Iowa City RCC	319-356-5170	Johnson	http://www.icgov.org/ hazardous.htm
Landfill of North Iowa Kossuth Co. Satellite Cities of Klemme, Garner, Forest City, Joice, Hanlontown, Northwood, Kennset, Manly, Grafton, Nora Springs	641-357-5452 515-924-3739	Cerro Gordo, Franklin, Kossuth	www.landfillnorthiowa.org
Mahaska Co RCC	641-673-9266	Mahaska	



Iowa Regional Collection Center Contact Information (continued)

Main facilities are in bold with satellite facilities listed beneath

RCC Name	Phone	Counties Served	Website
Monona Co RCC	712-353-6300	Monona	
Metro Waste Authority	888-603-2739 515-967-5512	In addition to those listed below. Polk, Dallas, Greene, Lucas, Mitchell, Poweshiek, Warren	
Adair Co. Satellite		Adair	www.acslrc.org
Boone Co. Satellite	641-743-8343	Boone	
Carroll Co. Satellite	515-433-0591	Carroll	
Chickasaw Co. Satellite	712-792-5001	Chickasaw	
Crawford Co. Satellite	877-982-4288	Crawford	
Floyd Co. Satellite	712-792-5001	Floyd	
Grundy Co. Satellite	641-982-4288	Grundy	
Hardin Co. Satellite	319-824-6967	Hardin	
Jasper Co. Satellite	641-939-5808	Jasper	
Madison Co. Satellite	641-792-3866	Madison	
Marion Co. Satellite	515-462-3083	Marion	
Marshall Co. Satellite	641-828-8545	Marshall	
Mitchell Co. Satellite	641-752-0646	Mitchell	
Shelby Co. Satellite	877-982-4288	Shelby	
Story Co Resource	712-792-5001	Story	
Recovery Plant	515-239-5137		
Indianola Satellite	515-961-9410	Warren	
PCB	712-225-3749	Buena Vista, Cherokee, Plymouth	
Prairie RCC	641-347-5022	Adams, Taylor, Union	www.praireswa.org
Union Co.	641-347-5022		
Audubon Co.	712-563-3589		
Clarke Co.	641-342-2662		
Cass Co.	712-243-1991		
Wayne-Ringgold-Decatur (Open in Fall 2006)	641-773-5229		
SEMCO	319-456-6171	Jefferson, Keokuk, Washington	
Sioux City RCC	712-279-6222	Cities of Sioux City and Sargents Bluff	
Waste Comm. Scott Co.	563-381-1300	Scott, Muscatine	
Muscatine Co. Satellite	563-263-9689	Muscatine	



Household Hazardous Materials Reference List (not inclusive)

MOTOR OILS & MOTOR OIL ADDITIVES

- All motor oil products
- Engine lubricants
- Oil and transmission fluid additives
- Transmission fluids
- Oil

MOTOR OIL FILTERS

- All types, canister or replaceable filter elements

GASOLINE & DIESEL ADDITIVES

- All types of gas treatments & gas line freeze-up products

DEGREASERS

- All engine cleaners, most of these are also solvents, many come in aerosol cans

WAXES & POLISHES (except nail polish)

- Shoe polishes
- Car waxes
- Spray dust cleaners
- Floor waxes
- Furniture polishes
- Furniture stains

SOLVENTS (except water)

- Mineral spirits
- Alcohols
- Naphtha
- Turpentine
- Cresol

PAINTS (except latex-based materials)

- All other paints-brush or spray including aerosol paints

LACQUERS & THINNERS (except water)

CAUSTIC HOUSEHOLD CLEANERS

- Drain cleaners
- Most oven cleaners
- Brass cleaners
- Toilet bowl cleaners
- Rust removers
- Silver & Chrome

SPOT & STAIN REMOVERS (petroleum base)

PETROLEUM BASED FERTILIZERS

**PESTICIDES**

Any insecticide product including, but not limited to:

- Yard & garden sprays
- Flea & tick products for pets
- Moth balls
- Rodenticides
- Bug sprays or stick creams
- Roach powder
- Fly strips
- Algaecides
- Fungicides
- Herbicides

MISCELLANEOUS

- Lead-acid batteries
- Pool chemicals
- Photography chemicals
- Eye glass cleaner
- Windshield wiper solution
- Self-lighting charcoal
- Gun cleaner solution
- All aerosols (except personal care products)
- Rechargeable batteries
- Antifreeze
- Wood preservatives
- Butane lighters
- Most glues & adhesives
- Charcoal lighter fluid
- Jewelry cleaner

The BOLD FACED HEADINGS are categories listed in the Groundwater Protection Act. The materials listed under the headings are there to assist you in identifying the types of products included under the HHM program. This list is not all inclusive.

Questions? Contact the Department of Natural Resources at 515-281-4367, or visit our website at www.iowadnr.com.